

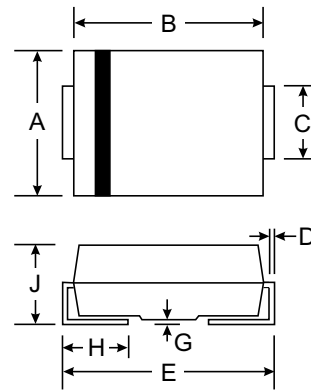
**VOLTAGE RANGE: 3.6 - 200V**  
**POWER: 2.0Watts**

### Features

- Complete Voltage Range 3.6 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 75^\circ\text{C}$ (Note1)	$P_D$	2.0	Watts
Maximum Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\theta JA}$	60	K / W
Junction Temperature Range	$T_J$	- 55 to + 175	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 175	$^\circ\text{C}$

**Note :**

- (1)  $T_L$  = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



## ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	Vz @ IzT	IzT	ZzT @ IzT	Zzk @ IzK	IzK	IR @ VR		IzM
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
SMA2EZ3V6	3.6	139	5.0	400	1.0	80	1.0	504
SMA2EZ3V9	3.9	128	5.0	400	1.0	30	1.0	468
SMA2EZ4V3	4.3	116	4.5	400	1.0	20	1.0	434
SMA2EZ4V7	4.7	106	4.5	550	1.0	5.0	1.0	386
SMA2EZ5V1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
SMA2EZ5V6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
SMA2EZ6V2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
SMA2EZ6V8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
SMA2EZ7V5	7.5	66.5	2.0	700	0.5	50	5.0	242
SMA2EZ8V2	8.2	61.0	2.3	700	0.5	50	6.0	220
SMA2EZ9V1	9.1	55.0	2.5	700	0.5	50	7.0	200
SMA2EZ10	10	50.0	3.5	700	0.25	50	7.6	182
SMA2EZ11	11	45.5	4.0	700	0.25	50	8.4	166
SMA2EZ12	12	41.5	4.5	700	0.25	1.0	9.1	152
SMA2EZ13	13	38.5	5.0	700	0.25	0.5	9.9	138
SMA2EZ14	14	35.7	5.5	700	0.25	0.5	10.6	130
SMA2EZ15	15	33.4	7.0	700	0.25	0.5	11.4	122
SMA2EZ16	16	31.2	8.0	700	0.25	0.5	12.2	114
SMA2EZ17	17	29.4	9.0	750	0.25	0.5	13.0	107
SMA2EZ18	18	27.8	10	750	0.25	0.5	13.7	100
SMA2EZ19	19	26.3	11	750	0.25	0.5	14.4	95
SMA2EZ20	20	25.0	11	750	0.25	0.5	15.2	90
SMA2EZ22	22	22.8	12	750	0.25	0.5	16.7	82
SMA2EZ24	24	20.8	13	750	0.25	0.5	18.2	76
SMA2EZ27	27	18.5	18	750	0.25	0.5	20.6	68
SMA2EZ30	30	16.6	20	1000	0.25	0.5	22.5	60
SMA2EZ33	33	15.1	23	1000	0.25	0.5	25.1	55
SMA2EZ36	36	13.9	25	1000	0.25	0.5	27.4	50
SMA2EZ39	39	12.8	30	1000	0.25	0.5	29.7	47
SMA2EZ43	43	11.6	35	1500	0.25	0.5	32.7	43
SMA2EZ47	47	10.6	40	1500	0.25	0.5	35.8	39
SMA2EZ51	51	9.8	48	1500	0.25	0.5	38.8	36
SMA2EZ56	56	9.0	55	2000	0.25	0.5	42.6	32
SMA2EZ62	62	8.1	60	2000	0.25	0.5	47.1	29
SMA2EZ68	68	7.4	75	2000	0.25	0.5	51.7	27
SMA2EZ75	75	6.7	90	2000	0.25	0.5	56.0	24
SMA2EZ82	82	6.1	100	3000	0.25	0.5	62.2	22
SMA2EZ91	91	5.5	125	3000	0.25	0.5	69.2	20
SMA2EZ100	100	5.0	175	3000	0.25	0.5	76.0	18
SMA2EZ110	110	4.5	250	4000	0.25	0.5	83.6	17
SMA2EZ120	120	4.2	325	4500	0.25	0.5	91.2	15
SMA2EZ130	130	3.8	400	5000	0.25	0.5	98.8	14
SMA2EZ140	140	3.6	500	5500	0.25	0.5	106.4	13
SMA2EZ150	150	3.3	575	6000	0.25	0.5	114.0	12
SMA2EZ160	160	3.1	650	6500	0.25	0.5	121.6	11
SMA2EZ170	170	2.9	675	7000	0.25	0.5	130.4	11
SMA2EZ180	180	2.8	725	7000	0.25	0.5	136.8	10
SMA2EZ190	190	2.6	825	8000	0.25	0.5	144.8	10
SMA2EZ200	200	2.5	900	8000	0.25	0.5	152.0	9.0